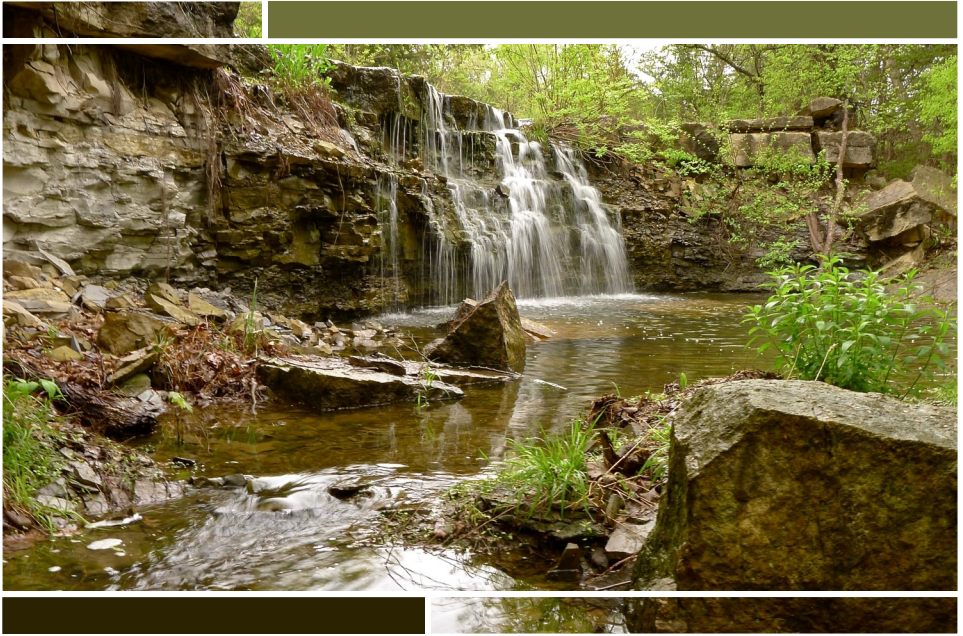




Governor's Conference on the Future of Water in Kansas

November 8-9, 2017



Held at the Hilton Garden Inn & Conference Center, Manhattan, Kansas

Hosted By



*K-State Research & Extension/Kansas Water Resource Institute
Kansas Geological Survey/KU
Kansas Department of Agriculture
Kansas Department of Health & Environment
Kansas Department of Wildlife, Parks & Tourism*

Tuesday, Nov. 7th Evening Kickoff!

Early Registration 6:30-7:30 pm

Game Show Road Show 7:30-8:30 pm with snacks & drinks

AGENDA - Wednesday, November 8, 2017 ***Breakfast Available at 7:30 am***

7:30 - Registration/Tour Exhibits (*Foyer*)

8:30 - Opening Session/Welcome - Tracy Streeter, Kansas Water Office

8:40 - Presentation of Colors - Gary Harshberger, Kansas Water Authority

8:45 - Vision for the Future of Water in Kansas - Governor's Vision Team

9:15 - Governor Sam Brownback

9:45 - Water Legacy Award Presentation - Governor Sam Brownback

10:00 - Break/Tour Exhibits

10:15 - Jim Gulliford, EPA Region 7 Administrator

11:00 - Michael Teague, Oklahoma Secretary of Energy & Environment

11:45 - Break for Lunch (Clear the room for lunch set-up)

12:30 - Lunch - Be the Vision Presentation - Lt. Gov. Jeff Colyer

1:45 - Water & Emergency Response (*Kaw Nation*)

- Major General Lee Tafari, Adjutant General of Kansas
- Colonel Christopher Hussin, Commander, Tulsa District, U.S. Army Corps of Engineers
- Jake White, Burns & McDonnell

Public Water Supply & Agriculture: Solving Non-Point Source Pollution Problems Together (*Big Basin*)

- Jim Gillespie, IDALS-Soil Conservation & Water Quality Division
- Dave White, American Water Works Association
- Sandi Formica, Executive Director, Arkansas Watershed Conservation Resource Center

3:00 - Break/Tour Exhibits

3:15 - Overcoming Water Scarcity - The Israeli Approach (*Kaw Nation*)

- Professor Eilon Adar of Ben Gurion University of the Negev
- Andrew Shaw, Black & Veatch

Two-Part Breakout Session (*Big Basin*)

Sustainability Initiatives in Ag

- Ashley McDonald, National Cattlemen's Beef Association
- The Farm Bill's Role in Water & Natural Resource Management**
- Ryan Flickner, Kansas Farm Bureau
 - Rob Manes, The Nature Conservancy
 - Aaron Popelka, Kansas Livestock Association
 - Elmer Ronnebaum, Kansas Rural Water Association

5:00 - Evening Social at Flint Hills Discovery Center - (5:00 pm - 6:30 pm)

AGENDA - *Thursday, November 9, 2017*

Breakfast Available at 7:15 am

7:15 - Registration/Poster Set-up

8:00 - Concurrent Session 1

- A. Local Governance & Funding: How does it work in our neighboring states? (*Flint Hills, Kings & Konza Prairie*)
- B. Flood Waters Mitigation and Measurement (*Kaw Nation*)
- C. Water Quality & Wetlands (*Big Basin*)
- D. Data Collection, Monitoring Weather, & Management (*McDowell*)
- E. Water Management (*Big Blue/Ft. Riley*)

9:20 - Break/View Posters

9:40 - Concurrent Session 2

- A. Innovative Municipal Solutions (*Flint Hills, Kings & Konza*)
- B. Harmful Algae Blooms (*Kaw Nation*)
- C. Ogallala Progress (*Big Basin*)
- D. Water & Health (*McDowell*)
- E. Produced Water (*Big Blue/Ft. Riley*)

11:00 - Break/View Posters

11:20 - Concurrent Session 3

- A. Soil Health: A New Hope For Water Resources
(*Flint Hills, Kings & Konza*)
- B. Water, Wind and Sun: Choices for the Future of Western Kansas
(*McDowell*)
- C. Assessment and Adaptation to Extreme Events in the Great Plains
(*Big Blue/Ft. Riley*)
- D. The Importance of Brewing Water: Local Brewmasters Discuss
Water's Role in the Craft Beer Industry
(*Discovery Center, 2nd Floor*)

12:20 - Break/View Posters

12:30 - Lunch - Tracy Streeter, Kansas Water Office

1:15 - Student Poster Awards - Dan Devlin, Kansas State University

1:40 - Secretary Robin Jennison-Kansas Department of Wildlife, Parks & Tourism

2:20 - Closing Words - Tracy Streeter, Kansas Water Office

2:30 - Adjourn



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Concurrent Sessions - Day 2

Thursday, November 9, 2017

#KSWaterFuture17

8:00 - Concurrent Session 1

A. Local Governance & Funding: How does it work in our neighboring states? (*Flint Hills, Kings & Konza*)

Moderator: Tracy Streeter, Kansas Water Office

PANEL:

- Dean Edson, *Executive Director, Nebraska Association of Resources Districts*
- Peter Ampe, *Partner, Hill and Robbins & Counsel, Republican and Rio Grande Water Conservation Districts, Denver Colorado*
- Colleen Meredith, *Director, Soil & Water Conservation Program, Missouri Department of Natural Resources*

B. Flood Waters Mitigation & Measurement (*Kaw Nation*)

Moderator: Tom Morey, KDA-DWR, Floodplain Program Manager

- Topeka Levee Project - Kelly Ryan, *City of Topeka*
- Updated Methods of Flood Frequency Calculation - Craig Painter, *United States Geological Survey*
- LiDAR and the Kansas Surface Water Landscape - Jude Kastens, *Kansas Biological Survey*
- An Overview of USGS Programs: Flooding - Andy Ziegler, *United States Geological Survey*

C. Water Quality & Wetlands (*Big Basin*)

Moderator: Angela Anderson, Neosho RAC Chair, Twin Lakes WRAPS Coordinator

- Midwest Water Quality Challenges in the Face of Weather Extremes - Terry Loecke, *University of Kansas*
- Improving Water Quality with Cover Crops and Fertilizer Management - Nathan Nelson, *Kansas State University*
- Extension Ed Program and Research on Poultry Litter Utilization and Storage in Southeast Kansas - Peter Tomlinson, *Kansas State University*
- Investigating Wetland Function in the Federal Reservoirs of Kansas - Erica Schmitz, *Kansas State University*

D. Data Collection & Management (*McDowell*)

Moderator: Shannon Kenyon, Assistant District Manager, Northwest Kansas GMD #4

- Challenges and Opportunities of Creating a Hi-Res Soil Moisture Map for Kansas - Andres Patrignani, *Kansas State University*
- Kansas' Participation in the National Groundwater Monitoring Network - Brownie Wilson, *Kansas Geological Survey*
- Monitoring Weather with the Kansas Mesonet - Christopher Redmond, *Kansas State University*
- Evaluating Playas as Sources of Recharge to the High Plains Aquifer in Western Kansas - Randy Stotler, *University of Kansas*



Vision Action Item

Concurrent Sessions - Day 2

Thursday, November 9, 2017

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8:00 - Concurrent Session 1 - (Continued)

E. Water Management (*Big Blue/Ft. Riley*)

Moderator: Cara Hendricks, Kansas Water Office



- Sustainability Assessment for Equus Beds, GMD #2 - *Don Whittemore, Kansas Geological Survey*
- Simulating How to Decrease Water Shortages in the Lower Republican River Basin Using New Management Options - *Andrea Brookfield, Kansas Geological Survey*
- Water Supply Infrastructure, Conservation, and Moderation: How Owning a Well Affects Kansans' Environmentalism - *Brock Ternes, SUNY Cortland*
- Endangered Fish Species in Kansas: Historic vs. Contemporary Distributions - *Muluken Muche, U.S. Environmental Protection Agency*

9:20 - Break/View Posters

9:40 - Concurrent Session 2

A. Innovative Municipal Solutions (*Flint Hills, Kings & Konza*)

Moderator: Brian Meier, Equus-Walnut RAC, Burns and McDonnell



- Wichita's MS4 Program: Implementation of an Off-Site BMP for Unified Watershed Management - *Trisha Moore, Kansas State University*
- Joint Municipal and Ag Cooperation Project for Groundwater Contamination Remediation - *Don Koci, City of Hutchinson*
- Streamflow Alteration in Kansas: Assessment, Causes, and Habitat Implications - *Kyle Juracek, United States Geological Survey*
- Sustainable Resource Recovery from Municipal Wastewater in Pilot-Scale Anaerobic Membrane Bioreactor - *Prathap Parameswar, Kansas State University*

B. Harmful Algae Blooms (*Kaw Nation*)

Moderator: Tom Stiles, Kansas Department of Health and Environment, Bureau of Water



- Kansas Surface Water Supplies Continue to be Challenged: Understanding Causes to Guide Effective Management - *Jerry deNoyelles, Kansas Biological Survey*
- Dealing with Algae Blooms - *Mike Carney, Clay County Park*
- Harmful Cyanobacterial Blooms in Kansas - *Ted Harris, Kansas Biological Survey*
- Cyanobacterial Harmful Algae Blooms and United States Geological Survey Science Capabilities - *Jennifer Graham, United States Geological Survey*



Vision Action Item

Concurrent Sessions - Day 2





Thursday, November 9, 2017

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9:40 Concurrent Session 2 (Continued)


C. Ogallala Progress (*Big Basin*)

Moderator: Armando Zarco, KDA-DWR, Garden City Field Office

-  • Water Technology Farms Update - *Jonathan Aguilar, Kansas State University*
-  • Monitoring the Impacts of the Sheridan County 6 Local Enhanced Management Area - *Bill Golden, Kansas State University*
-  • Water Technology Farms: A Producer's Perspective - *Dwane Roth, Big D Farms, Holcomb*
-  • Wichita County WCA - *Matt Long, Red Barn Enterprises, Inc.*


D. Water & Health (*McDowell*)

Moderator: Fred Jones, Upper Arkansas RAC Chair, Water Resource System Manager, City of Garden City

- Protecting Domestic Well Water Quality in Kansas - *Elizabeth Ablah, University of Kansas*
- Water and Wastewater Reduction Using a Pollution Prevention Intern - *Kevin Moluf, Kansas State University Engineering Extension*
-  • Potential Health Effects of Municipal Water Reuse in Kansas: A Health Impact Assessment - *Carlie Houchen, Kansas Health Institute*
- Reclaimed Water in Florida: Issues and Funding - *Diane Kemp, CDM Smith*

E. Produced Water (*Big Blue/Ft. Riley*)

Moderator: Hi Lewis, Red Hills RAC, Directional Drilling Systems, LLC

- Oklahoma's Produced Water Study - *Julie Cunningham, Oklahoma Water Resources Board*
- Water Quality and Flow in Salt Containing Formations in Kansas - *Dave Newell, Kansas Geological Survey*
-  • Produced Water Management in Kansas: Treatment and Reuse Options - *Ted Peltier, University of Kansas*

11:00 - *Break/View Posters*



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Governor's Water Conference
filters on Snapchat!

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Vision Action Item

Concurrent Sessions - Day 2

Thursday, November 9, 2017

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11:20 - Concurrent Session 3

A. Soil Health: A New Hope for Water Resources (*Flint Hills, Kings, Konza*)

Moderator: Steve Swaffer, No Till on the Plains

PANEL:

- Shane New, *Jackson County Producer & Entrepreneur*
- Gretchen Sassenrath, *Associate Professor of Agronomy, Kansas State University Southeast Research and Extension Center*
- Andrew Lyon, *WRAPS Technical Unit Program Manager, Kansas Department of Health and Environment*

B. Water, Wind, and Sun: Choices for the Future of Western Kansas

(*McDowell*)

Moderator: Susan Stover, Kansas Geological Survey

PANEL:

- Mary Hill, *Professor of Geology, University of Kansas*
- Anil Pahwa, *Professor, College of Engineering, Kansas State University*
- Danny Rogers, *Extension Agricultural Engineer, Kansas State University*

C. Assessment and Adaptation to Extreme Events in the Great Plains (*Big Blue/Ft. Riley*)

Moderator: Vahid Rahmani, Kansas State University

PANEL:

- Doug Kluck, *Regional Climate Services Director, NOAA*
- Dave Brown, *Director of Southern Plains Climate Hub, USDA*
- Tom Jacobs, *Environmental Program Director, Mid-America Regional Council*
- Amy Kremen, *Project Manager, Ogallala Water CAP (NIFA-USDA), Colorado State University*
- Natalie Umphlett, *Interim Director, High Plains Regional Climate Center*

D. The Importance of Brewing Water: Local Brewmasters Discuss

Water's Role in the Craft Beer Industry (Discovery Center, 2nd Floor)

Moderator: Katie Goff, Kansas Water Office

PANEL:

- Larry Cook, *Dodge City Brewing Company*
- Chuck Magerl, *Free State Brewing Company*
- Jeremy "JJ" Johns, *Radius Brewing Company*

12:30 - Lunch (*Kaw Nation & Big Basin*)

1:15 - Dan Devlin, KSU

Presentation of Graduate/Undergraduate Student Poster Awards

1:40 - Secretary Robin Jennison, Kansas Department of Wildlife, Parks, & Tourism

2:15 - Closing Words - Tracy Streeter, Director, Kansas Water Office

2:30 - Adjournment

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